

INFORMATION DISCLOSURE
CITATION

PTO-1449

ATTY. DOCKET NO.
17882-706SERIAL NO.
08/895,936APPLICANT
Wisniewski et al.FILING DATE
July 17, 1997GROUP
3407

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
MGP	3,764,780	10-9-73	Ellis	219	430	6-16-71
MGP	2,405,091	7-30-46	Culbreth	62	149	6-27-45
MGP	3,108,840	10-29-63	Conrad et al.	312	214	12-5-60
MGP	2,449,343	9-14-48	Torbensen	52	99	2-12-45
MGP	5,168,725	12-8-92	Margolin	62	457.9	8-24-90
MGP	2,441,376	5-11-48	Stiening	62	89	3-15-45

FOREIGN PATENT DOCUMENTS


EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MGP	518,301	22/02/40	Great Britain				
MGP	2 237 156	07/02/75	France	F28D	21/00		
MGP	0 618 413 A1	05/10/94	Europe	F25C	1/00		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

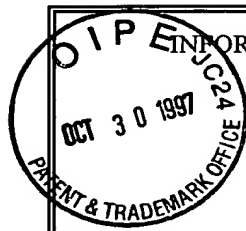
EXAMINER

DATE CONSIDERED

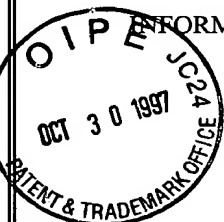
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		APPLICANT Wisniewski et al.				
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U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
FOREIGN PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
MGP	Kalhori, B. et al., "Studies on Heat Transfer From a Vertical Cylinder, With or Without Fins, Embedded in a Solid Phase Change Medium", <i>Transactions of the ASME, Journal of Heat Transfer</i> , Vol. 107, February 1985, pp. 44-51.					
EXAMINER		DATE CONSIDERED				

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		APPLICANT Wisniewski et al.					
		FILING DATE July 17, 1997		GROUP Unknown			
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
MGP	5,220,954	6-22-93	Longardner et al.	165	10	10-7-92	
	4,200,148	4-29-80	Friefeld et al.	165	104S	4-3-78	
	4,976,308	12-11-90	Faghri	165	10	2-21-90	
	5,579,830	12-3-96	Giammaruti	165	104.27	11-28-95	
	5,520,885	5-28-96	Coelho et al.	422	101	1-19-93	
	5,458,191	10-17-95	Chiang et al.	165	133	7-11-94	
	5,411,078	5-2-95	Ares	165	113	12-13-93	
Mbr	5,332,034	7-26-94	Chiang et al.	165	184	12-16-92	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MGP	A-12751/83	06/10/83	Australia	A23B	4/06		
	18668/83	02/09/83	Australia				
	0 316 966 B1	24/05/89	Europe	F25C	1/00		
	2 092 880 A	25/08/82	Great Britain	A23L	3/36		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Gore, H.C., "Apple Sirup and Concentrated Cider: New Products for Utilizing Surplus and Cull Apples", Yearbook of the Department of Agriculture, 1914, pp. 227-244.						
	Stahl, A.L., "Concentration of Citrus Juices by Freezing", Florida State Horticultural Society, 1944, pp. 43-45.						
	Lawler, Frank K., "Engineering Advances FREEZE-Concentration", Food Engineering, Vol. 23, No. 10, October 1951, pp. 68-71, 210-213.						
	Schwarz, H.W., et al., "Production of Orange Juice Concentrate and Powder", Industrial and Engineering Chemistry, Vol. 40, No. 5, May 1948, pp. 938-944.						
MGP	Burton, R. et al., "An experimental investigation of the solidification process in a V-shaped sump", Int. J. Heat Mass Transfer, Vol. 38, No. 13, (1995), pp. 2383-2393.						
	Wisniewski, R. et al., "Large-Scale Freezing and Thawing of Biopharmaceutical Products", Biotech. and Biopharm. Manufacturing, Processing, and Preservation, Interpharm Press, Illinois, 1996, pp. 7-58.						
EXAMINER <i>[Signature]</i>			DATE CONSIDERED 15 Oct 98				

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	5,212,957	5-25-93	Ruff	62	124	4-7-92	
	5,181,387	1-26-93	Meckler	62	59	1-17-91	
	5,176,197	1-5-93	Hamaguchi et al.	164	459	10-8-91	
	5,090,207	2-25-92	Gilbertson et al.	62	59	11-30-90	
	5,072,569	12-17-91	VanTassel	52	745	8-13-90	
	5,054,548	10-8-91	Zohler	165	133	10-24-90	
	5,033,544	7-23-91	Abbott	165	184	9-8-87	
	5,022,149	6-11-91	Abbott	29	890.048	8-7-90	
	5,005,371	4-9-91	Yonezawa et al.	62	238.6	5-18-90	
	4,609,036	9-2-86	Schrader	165	10	8-7-85	
	4,596,120	6-24-86	Knodel et al.	62	59	11-30-84	
	4,584,843	4-29-86	Pronger, Jr. et al.	62	123	11-5-84	
	4,531,373	7-30-85	Rubinsky	62	63	10-24-84	
	4,512,388	4-23-85	Claar et al.	165	1	6-20-83	
	4,509,344	4-9-85	Ludwigsen et al.	62	76	12-8-83	
	4,426,959	1-24-84	McCurley	122	33	7-1-80	
	4,344,479	8-17-82	Bailey	165	109R	7-28-78	
	4,337,079	6-29-82	Mann, Jr. et al.	71	34	5-18-81	
FOREIGN PATENT DOCUMENTS							
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